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AUGUST 15, 1997

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NIXON, HARGRAVE, DEVANS & DOYLE LLP MICHAEL L. GOLDMAN CLINTON SQUARE P.O. BOX 1051 ROCHESTER, NEW YORK 14603



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RECORDATION DATE: 07/14/1997

REEL/FRAME: 8609/0541

NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

BARANY, FRANCIS

DOC DATE: 04/17/1997

ASSIGNOR:

BLOK, HERMAN

DOC DATE: 04/21/1997

ASSIGNOR:

ZIRVI, MONIB

DOC DATE: 04/17/1997

ASSIGNEE:

CORNELL RESEARCH FOUNDATION, INC.

20 THORNWOOD DRIVE

SUITE 105

ITHACA, NEW YORK 14850

SERIAL NUMBER: 08794851

PATENT NUMBER:

FILING DATE: 02/04/1997

ISSUE DATE:

ENTERED

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SEP 0 9 1997

FILE 19603/461

8609/0541 PAGE 2

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07-29-1997





100463876

To the Honorabl Commissioner of Facettes and Hauernance. I was record # attached original documents or copy thereof:

RECEIVED RECEIPT ACCTING. DIV.

Name of conveying party(ies): Francis Barany Herman Blok Monib Zirvi	 Name and address of receiving party(ies): Cornell Research Foundation, Inc. Thornwood Drive, Suite 105 Ithaca, New York 14850
3. Nature of conveyance: [X] Assignment [] Security Agreement [] Change of Name [] Other:	-
Execution Date(s): 1st Inventor: April 17, 1997 2nd Inventor: 3rd Inventor: 4th Inventor: 5th Inventor: April 21, 1997 6th Inventor: April 17, 1997	
4. Application number(s) or patent number(s): If this document is being filed together with a neapplication is(are): 1st (sole) Inventor: 2nd Inventor: 3rd Inventor: 4th Inventor:	ew application, the execution date(s) of the
A. Patent Application No.(s) 08/794,851	B. Patent No.(s)

ROC10:111808 19603/461 (CRF D-1595A)

6. Total number of applications and patents 5. Name and address of party to whom Involved: 1 correspondence concerning document should be mailed: 7. Total fee (37 CFR 3.41) \$40.00 Michael L. Goldman Nixon, Hargrave, Devans & Doyle LLP [] Previously paid (see original transmittal) Clinton Square P. O. Box 1051 [X] A check in the amount of \$40.00 is Rochester, New York 14603 enclosed. 8. Deposit Account Number: 14-1138 [] Charge total fee to account. [X] Charge any additional fees to account. DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Michael L. Goldman Date Signature Name of Person Signing [Total number of pages including cover sheet, attachments and document: 4]

ROC10:111808 19603/461 (CRF D-1595A) Certificate of Mailing - 37 CFR 1.8 (a)

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Date

Wendy L. H





In consideration of On Dillar (\$1.00), and ther good and valuable consideration, the receipt of which is hereby acknowledged, (I) (we) the undersign d,

Francis Barany Monib Zirvi Herman Blok

Hereby sell, assign and transfer to:

CORNELL RESEARCH FOUNDATION, INC.

a corporation of The State of New York, having a place of business at Cornell Business & Technology Park, 20 Thornwood Drive, Suite 105, Ithaca, New York, 14850 its successors, assigns and legal representatives, the entire right, title and interest for the United States and all foreign countries, in and to any and all improvements which are disclosed in the application for United States Letters Patent, Serial No. 08/794,851, filed February 4,199,7, entitled

DETECTION OF NUCLEIC ACID SEQUENCE DIFFERENCES USING THE LIGASE DETECTION REACTION WITH ADDRESSABLE ARRAYS

and in and to said application and all divisional, continuing, substitute, renewal, reissue, and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any f said improvements; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said improvements;

Agree that said Assignee may apply for and receive Letters Patent for said improvements in its own name; and that, when requested, without charge to but at the expense of said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the und rsigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said improvements, execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns, and representatives, all facts known to the undersigned relating to said improvements and the history thereof; and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns and legal representatives; and

Covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to thers by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Dat	1 April 17, 1997	Francis Barany	(L.S.)
Dat	April 17, 1997	Monib Zirvi	_ (L.S.)
Date		Herman Blok	(L.S.)





In consideration of One Dollar (\$1.00), and other good and valuable consideration, the receipt of which is hereby acknowledged, (I) (we) the undersigned,

Francis Barany Monib Zirvi Herman Blok

Hereby sell, assign and transfer to:

CORNELL RESEARCH FOUNDATION, INC.

a corporation of The State of New York, having a place of business at Cornell Business & Technology Park, 20 Thornwood Drive, Suite 105, Ithaca, New York, 14850 its successors, assigns and legal representatives, the entire right, title and interest for the United States and all foreign countries, in and to any and all improvements which are disclosed in the application for United States Letters Patent, Serial No. $\frac{08/794,851}{99}$, entitled

DETECTION OF NUCLEIC ACID SEQUENCE DIFFERENCES USING THE LIGASE DETECTION REACTION WITH ADDRESSABLE ARRAYS

and in and to said application and all divisional, continuing, substitute, renewal, reissue, and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said improvements; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said improvements;

Agree that said Assignee may apply for and receive Letters Patent for said improvements in its own name; and that, when requested, without charge to but at the expense of said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said improvements, execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns, and representatives, all facts known to the undersigned relating to said improvements and the history thereof; and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns and legal representatives; and

Covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to there by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Date	·	(L.S.)
	Francis Barany	
Date		(L.S.)
	Monib Zirvi	•
Date / 21 April 1997	JET BRA =	(L.S.)
	Herman Blok	, ,



UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

OCTOBER 16, 1997

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NIXON, HARGRAVE, DEVANS ET AL. MICHAEL L. GOLDMAN CLINTON SQUARE P.O. BOX 1051 ROCHESTER, NY 14603



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RECORDATION DATE: 09/02/1997

REEL/FRAME: 8695/0453

NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

BARANY, GEORGE

DOC DATE: 07/28/1997

ASSIGNOR:

KEMPE, MARIA

DOC DATE: 08/07/1997

ASSIGNEE:

REGENTS OF THE UNIVERSITY OF MINNESOTA MORRILL HALL, 100 CHURCH STREET SE MINNEAPOLIS, MINNESOTA 55455

SERIAL NUMBER: 08794851

PATENT NUMBER:

FILING DATE: 02/04/1997

ISSUE DATE:

STEVEN POST, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

ENTERED **NHDD**

OCT 2 9 1997



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To the Honorabie Commission r of Patents and Trademarks: Please record the attached original documents or copy th reof:

MRD 9-2-97	
Name of conveying party(ies): George Barany Maria Kempe	2. Name and address of receiving party(ies): Regents of the University of Minnesota Morrill Hall, 100 Church Street SE Minneapolis, MN 55455
3. Nature of conveyance: [X] Assignment [] Merger [] Security Agreement [] Change of Name [] Other: Execution Date(s): 1st Inventor: July 28, 1997	
2nd Inventor: August 7, 1997 3rd Inventor: 4th Inventor: 5th Inventor: 6th Inventor:	
4. Application number(s) or patent number(s): If this document is being filed together with a neapplication is(are): 1st (sole) Inventor: 2nd Inventor: 3rd Inventor: 4th Inventor:	ew application, the execution date(s) of the
A. Patent Application No.(s) 08/794,851	B. Patent No.(s)

ROC10:111810 19603/461 (CRF D-1595A)

5.	Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents Involved: 1	
	Michael L. Goldman Nixon, Hargrave, Devans & Doyle LLP Clinton Square P. O. Box 1051 Rochester, New York 14603	 7. Total fee (37 CFR 3.41) \$40.00 [] Previously paid (see original transmittal [X] A check in the amount of \$40.00 is enclosed. 8. Deposit Account Number: 14-1138 [] Charge total fee to account. [X] Charge any additional fees to account. 	
	DO NOT USE THIS SPACE		
e^			
9.	9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and an attached copy is a true copy of the original document. Michael L. Goldman		

ROC10:111810 19603/461 (CRF D-1595A)

Name of Person Signing

Certificate of Mailing - 37 CFR 1.8 (a)

Date

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Date

Signature

[Total number of pages including cover sheet, attachments and document: 4]

Wandy I. Harrold

ASSIGNMENT

WHEREAS, We, George Barany, a U.S. citizen, residing at 1813 Prior Avenue North, Falcon Heights, Minnesota 55113 and Maria Kempe, a Swedish citizen, residing at Knut den Stores torg 1c, S-222 21 Lund, Sweden, have invented certain new and useful improvements in **DETECTION OF NUCLEIC ACID SEQUENCE DIFFERENCES USING THE LIGASE DETECTION REACTION WITH ADDRESSABLE ARRAYS** for which we have executed an application for Letters Patent in the United States, filed as U.S. Serial No. 08/794,851 on February 4, 1997;

AND WHEREAS, Regents of the University of Minnesota, with its principal place of business at Morrill Hall, 100 Church Street SE, Minneapolis, MN 55455, desires to acquire the entire right, title and interest in and to the said improvements and the said Application:

NOW, THEREFORE, for good and valuable consideration; including salary or payment for the making of inventions, or employee benefits, the receipt of which is hereby acknowledged, we, the said inventors, do hereby acknowledge that we have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said University of Minnesota, its successors, legal representatives and assigns, the entire right, title and interest throughout the world in, to and under the said improvements, and the said application and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and we hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to the said University of Minnesota, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we will communicate to the said University of Minnesota, its successors, legal representatives and assigns, any facts known to us respecting said improvements and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid the said University of Minnesota, its successors, legal

representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

George Barany
STATE OF MINNESOTA COUNTY OF HENNEPIN SS:
This <u>28</u> day of <u>July</u> , 1997, before me personally came the above-named George Barany, to me personally known as the individual who executed the same of his own free will for the purposes therein set forth.
KATHLEEN P. ROSS MOTARY PUBLIC — MINNESOTA HENNEPIN COUNT) My commission expires 10-31-98. Notary Public
IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 14h day of August, 1997.
Maria Kempe
Witnessed: church Wenne Witnessed: MALT
Name Anita Kempe Name NILS LENNART KEMPE Address Velandergatan 66 SF 21566 HALHO Sweden SE 21566 MALMB, SWEDEN



UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

OCTOBER 15, 1997

NIXON, HARGRAVE, DEVANS & DOYLE LLP MICHAEL L. GOLDMAN CLINTON SQUARE P.O. BOX 1051 ROCHESTER, NEW YORK 14603



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RECORDATION DATE: 09/19/1997

REEL/FRAME: 8696/0528

NUMBER OF PAGES: 6

BRIEF: RECORD TO CORRECT SPELLING OF CITY OF RECEIVING PARTY (ITEM #2) PREVIOUSLY RECORDED ON REEL 8609/FRAME 0578

ASSIGNOR:

HAMMER, ROBERT P.

DOC DATE: 04/25/1997

ASSIGNEE:

LOUISIANA STATE UNIVERSITY 203 DAVID BOYD HALL, 146A BATON ROUGE, LOUISIANA 70803

SERIAL NUMBER: 08794851

PATENT NUMBER:

FILING DATE: 02/04/1997

ISSUE DATE:

SHAREILL COLES, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

ENTERED

NHDD

OCT 2 3 1997

R



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SEP 1 9 **1997**

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100543774

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COF	RREC	CTIVE
-----	------	-------

Name of conveying party(ies):

Robert P. Hammer

MRD

3. Nature of conveyance:

1 Assignment

Security Agreement

] Merger [] Change of Name

[X] Other: Record to correct spelling of city of receiving party (item #2) previously

recorded on Reel 8609/Frame 0578

Execution Date(s):

1st Inventor:

2nd Inventor:

3rd Inventor:

April 25, 1997

4th Inventor:

2. Name and address of receiving party(ies): **Louisiana State University** 203 David Boyd Hall, 146A

Baton Rouge, Louisiana 70803

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JUL 0 5 2002

H CENTER 1600/2900

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date(s) of the application is(are):

1st (sole) Inventor:

A. Patent Application No.(s)

2nd Inventor:

3rd Inventor:

4th Inventor:

08/794,851

B. Patent No.(s)

40E NO SPEC Fle

ROC10:120179 19603/461 (CRF D-1595A)

Name and address of party to whom correspondence concerning document should be mailed:	Total number of applications and patents involved: 1	
Michael L. Goldman Nixon, Hargrave, Devans & Doyle LLP Clinton Square P. O. Box 1051 Rochester, New York 14603	 7. Total fee (37 CFR 3.41) \$40.00 [] Previously paid (see original transmitted [X] A check in the amount of \$40.00 is enclosed. 8. Deposit Account Number: 14-1138 [] Charge total fee to account. [X] Charge any additional fees to account. 	
DO NOT US	E THIS SPACE	
)		

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. 9/11/97

Michael L. Goldman

Name of Person Signing

Signature

Date

[Total number of pages including cover sheet, attachments and document: 4]

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09-16-9

Date

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07-29-1997

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To the Honorable Commissioner . documents or copy thereof:

Pase record the attached original JUL 1 4 1997

RECEIPT 2. Name and address of receiving party(ies): 1. Name of conveying party(ies): Louisiana State University Robert P. Hammer 203 David Boyd Hall, 146A Baton Route, Louisiana 70803 3. Nature of conveyance: [X] Assignment [] Merger [] Security Agreement [] Change of Name [] Other: ___ Execution Date(s): 1st Inventor: 2nd Inventor: 3rd Inventor: April 25, 1997 4th Inventor:

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date(s) of the application is(are):

1st (sole) Inventor:

2nd Inventor:

3rd Inventor:

4th Inventor:

A. Patent Application No.(s)

08/794,851

B. Patent No.(s)

ROC10:111807 19603/461 (CRF D-1595A)

5.	Name and address of party to whom correspondence concerning document should be mailed:	Total number of applications and patents involved: 1
	Michael L. Goldman Nixon, Hargrave, Devans & Doyle LLP Clinton Square P. O. Box 1051 Rochester, New York 14603	 7. Total fee (37 CFR 3.41) \$40.00 [] Previously paid (see original transmittal) [X] A check in the amount of \$40.00 is enclosed. 8. Deposit Account Number: 14-1138 [] Charge total fee to account. [X] Charge any additional fees to account.
	DO NOT USE	THIS SPACE
9.	9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Michael L. Goldman Name of Person Signing Signature Date	
	[Total number of pages including cover	sheet, attachments and document: 4]

ROC10:111807 19603/461 (CRF D-1595A)

1000000

ASSIGNMENT

WHEREAS, I, Robert P. Hammer, a U.S. citizen, residing at 4967 Tulane Drive, Baton Rouge, Louisiana 70808, have invented certain new and useful improvements in DETECTION OF NUCLEIC ACID SEQUENCE DIFFERENCES USING THE LIGASE DETECTION REACTION WITH ADDRESSABLE ARRAYS for which I have executed an application for Letters Patent in the United States, filed as U.S. Serial No. 08/794,851 on February 4, 1997;

AND WHEREAS, Louisiana State University, with its principal place of business at 203 David Boyd Hall, 146A, Baton Rouge, Louisiana 70803, desires to acquire the entire right, title and interest in and to the said improvements and the said Application:

NOW, THEREFORE, for good and valuable consideration, including salary or payment for the making of inventions, or employee benefits, the receipt of which is hereby acknowledged, I, the said inventor, do hereby acknowledge that I have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said Louisiana State University, its successors, legal representatives and assigns, the entire right, title and interest throughout the world in, to and under the said improvements, and the said application and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and I hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to the said Louisiana State University, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND I HEREBY covenant and agree that I will communicate to the said Louisiana State University, its successors, legal representatives and assigns, any facts known to us respecting said improvements and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid the said Louisiana State University, its successors, legal representatives and assigns,

to obtain and enforce proper patent protection for said improvements in all countries.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this day of _______, 1997.

Robert P. Hammer

STATE OF Lowerana

COUNTY OF East Baton Rayes:
Parish

This 15th day of 1997, before me personally came the above-named Robert P. Hammer, to me personally known as the individual who executed the same of his own free will for the purposes therein set forth.

Sonnie J. Karrs Notaky Public



UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

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AUGUST 15, 1997

PTAS
NIXON, HARGRAVE, DEVANS & DOYLE, LLP
MICHAEL L. GOLDMAN
CLINTON SQUARE
P.O. BOX 1051
ROCHESTER, NY 14603



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RECORDATION DATE: 07/14/1997

REEL/FRAME: 8609/0578

NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

HAMMER, ROBERT P.

DOC DATE: 04/25/1997

ASSIGNEE:

LOUISIANA STATE UNIVERSITY 203 DAVID BOYD HALL, 146A BATON ROUTE, LOUISIANA 70803

SERIAL NUMBER: 08794851

PATENT NUMBER:

FILING DATE: 02/04/1997

ISSUE DATE:

MAURICE CARTER, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

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NHDD

SEP 0 9 1997

FILE 19603/461 DKT_______



07-29-1997





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100463878

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Robert P. Hammer	Louisiana State University
·	203 David Boyd Hall, 146A
·	Baton Route, Louisiana 70803
3. Nature of conveyance:	
[X] Assignment [] Merger [] Security Agreement [] Change of Name	
[] Other:	
Execution Date(s):	
1st Inventor:	
2nd Inventor: 3rd Inventor: April 25, 1997 4th Inventor:	
Application number(s) or patent number(s):	
If this document is being filed together with a neapplication is(are):	ew application, the execution date(s) of the
1st (sole) Inventor: 2nd Inventor: 3rd Inventor: 4th Inventor:	
A. Patent Application No.(s) 08/794,851	B. Patent No.(s)

ROC10:111807 19603/461 (CRF D-1595A)



5. Name and address of party to whom 6. Total number of applications and patents correspondence concerning document Involved: 1 should be mailed: Michael L. Goldman 7. Total fee (37 CFR 3.41) Nixon, Hargrave, Devans & Doyle LLP \$40.00 Clinton Square [] Previously paid (see original transmittal) P. O. Box 1051 Rochester, New York 14603 [X] A check in the amount of \$40.00 is enclosed. 8. Deposit Account Number: 14-1138 [] Charge total fee to account. [X] Charge any additional fees to account. DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

<u>Michael L. Goldman</u>

Name of Person Signing

Signature

Date

[Total number of pages including cover sheet, attachments and document: 4]

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ASSIGNMENT

WHEREAS, I, Robert P. Hammer, a U.S. citizen, residing at 4967 Tulane Drive, Baton Rouge, Louisiana 70808, have invented certain new and useful improvements in **DETECTION OF NUCLEIC ACID SEQUENCE**DIFFERENCES USING THE LIGASE DETECTION REACTION WITH ADDRESSABLE

ARRAYS for which I have executed an application for Letters Patent in the United States, filed as U.S. Serial No. 08/794,851 on February 4, 1997;

AND WHEREAS, Louisiana State University, with its principal place of business at 203 David Boyd Hall, 146A, Baton Rouge, Louisiana 70803, desires to acquire the entire right, title and interest in and to the said improvements and the said Application:

NOW, THEREFORE, for good and valuable consideration, including salary or payment for the making of inventions, or employee benefits, the receipt of which is hereby acknowledged, I, the said inventor, do hereby acknowledge that I have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said Louisiana State University, its successors, legal representatives and assigns, the entire right, title and interest throughout the world in, to and under the said improvements, and the said application and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and I hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to the said Louisiana State University, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND I HEREBY covenant and agree that I will communicate to the said Louisiana State University, its successors, legal representatives and assigns, any facts known to us respecting said improvements and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid the said Louisiana State University, its successors, legal representatives and assigns,

to obtain and enforce proper patent protection for said improvements in all countries.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this day of _______, 1997.

Robert P. Hammer

STATE OF bousiana COUNTY OF East Baton Rayes:

This <u>15th</u> day of <u>howl</u>, 1997, before me personally came the above-named Robert P. Hammer, to me personally known as the individual who executed the same of his own free will for the purposes therein set forth.

Bonnie g Ravis

Notary Public